



Contract Number	Mix Type	Binder Type	Sample Number	JMF Number
Contract Title				

Required Data

% Binder (Pb)	
% Pass #200 Sieve	
Gmm (Rice Specific Gravity)	
Compaction Temperature	
Initial Weight of Uncompacted Mixture	
Number of Gyration @ Initial	
Number of Gyration @ Design	
Gb If Gb is different from JMF enter new Gb here	
Gsb Blend	

Rice Specific Gravity Gmm

A = Sample Mass (Wt.)	
D = Mass (Wt.) of Pycnometer plus water and cover	
E = Mass (Wt.) of Pycnometer Jar plus sample, water and cover	
F = Rice specific gravity = $A / (A + D - E)$	

Bulk Density (AASHTO T-166 Method A)

Dry Mass (A)	
SSD Mass (B)	
Mass in Water (C)	
Gmb = $A / (B - C)$	(nearest 0.001)

Gyratory Data (AASHTO T-312)

H @ Nini	
H @ Ndes	
% Gmm @ Nini = $(H_{des} * G_{mb} / H_{ini} * G_{mm}) * 100$	(nearest 0.1)

Volumetrics

Va = $100 * (1 - (G_{mb} / G_{mm}))$	(nearest 0.1)
VMA = $100 - ((G_{mb} * P_s) / G_{sb})$	(nearest 0.1)
VFA = $100 * [(VMA - Va) / VMA]$	(nearest 1)

Dust to Asphalt Binder Ratio (D/A)

Gse = $(100 - P_b) / [(100 / G_{mm}) - (P_b / G_b)]$	(nearest 0.001)
Pbe = $[P_s * G_b] * (G_{se} - G_{sb}) / (G_{se} * G_{sb}) + P_b$	(nearest 0.1)
Ps = $100 - P_b$	(nearest 0.1)
D/A = % Passing # 200 Sieve / Pbe	(nearest 0.1)

Contractor's Signature	Date
Inspector's Signature	Date